

DETAILED ACTION

Response to Amendment

1. Claims 1, 6-7, 9, 15-16, and 19-20 are pending.
2. The objections to claims 15 and 16 have been withdrawn in view of the amendments received 12/14/2009.
3. The 35 USC 112 1st paragraph rejections have been withdrawn in view of the amendments received 12/14/2009.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Authorization for this examiner's amendment was given in a telephone interview with Irene Lin on 1/21/2010.

Amend the application as follows:

5. In Claim 1, lines 2-3, delete,
"a speech modeling system, receiving and transferring a mixed multi-lingual speech signal into a plurality of speech features;"
and insert,
—a digital signal processing unit;
a speech modeling system, receiving and transferring a mixed multi-lingual speech signal into a plurality of speech features; —

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6. In Claim 1, line 6, delete,
“a cross-lingual diphone model generation engine,”
and insert,
—a cross-lingual diphone model generation engine executed by the digital signal processing unit, —

Allowable Subject Matter

7. The following is an examiner's statement of reasons for allowance:

As per independent claims 1 and 9, the closest known prior art fails to teach alone or in fair combination the following limitations:

fixing left contexts of the multi-lingual baseforms and mapping right contexts of the multi-lingual baseforms to obtain a mapping result;

fixing right context and mapping the left contexts of the multi-lingual baseforms to obtain the mapping result if the right contexts of the multi-lingual baseforms mapping fails; and

obtaining the multi-lingual context-speech mapping data according to the mapping result.

D'Hoore teaches a multi-lingual speech recognition system but fails to teach multi-lingual mapping based on context. Burns teaches query commands to a speech recognition system. Lastly, Black teaches contextual mapping but fails to teach that the

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left context is fixed then right mapping and if that fails then fixing the right context and mapping the left to recognize multi-lingual speech.

Dependent claims 6-7 and 19 are also considered allowable for further limiting and being dependent on independent claim 1.

Dependent claims 15-16 and 20 are also considered allowable for further limiting and being dependent on independent claim 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Refer to PTO-892, Notice of References Cited for a listing of analogous art.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREG A. BORSETTI whose telephone number is (571)270-3885. The examiner can normally be reached on Monday - Thursday (8am - 5pm Eastern Time).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHEMOND DORVIL can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Greg A. Borsetti/
Examiner, Art Unit 2626

/Talivaldis Ivars Smits/
Primary Examiner, Art Unit 2626

2/3/2010